SEQUENCE LISTING

<110> Advisys, Inc.

<120> Codon optimized Synthetic Plasmid

<130> 108328.00146

<160> 21

<170> PatentIn version 3.1

<210> 1
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<212> DNA
<213> artificial sequence

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<223> Plasmid vector having an analog GHRH sequence.

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<211> 2739
<212> DNA
<213> artificial sequence

<220>
<223> Plasmid vector having an analog GHRH sequence.

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gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc 180

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cgcattcctg ggggccgggc ggtgctcccg cccgcctcga taaaaggctc cggggccggc 300

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gatcgtgtaa tacgactcac tatagggcga attggagct 2739

<210> 3
<211> 795
<212> DNA
<213> artificial sequence

<220>
<223> Coding sequence having an antibiotic resistance gene Kanamycin.

<400> 3
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gcgcaggggc gcccggttct ttttgtcaag accgacctgt ccggtgccct gaatgaactg 180

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gagcatcagg ggctcgcgcc agccgaactg ttcgccaggc tcaaggcgcg catgcccgac 540

ggcgaggatc tcgtcgtgac tcatggcgat gcctgcttgc cgaatatcat ggtggaaaat 600

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gacgagttct tctga 795

<210> 4
<211> 219
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog porcine GHRH sequence.

<400> 4
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ccacctcccc ctttgaccct caggatgcgg cggcacgtag atgccatctt caccaacagc 120

taccggaagg tgctggccca gctgtccgcc cgcaagctgc tccaggacat cctgaacagg 180

cagcagggag agaggaacca agagcaagga gcataatga 219

<210> 5
<211> 246
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog mouse GHRH sequence.

<400> 5
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ctgcctccca gccctccctt caggatgcag aggcacgtgg acgccatctt caccaccaac 120

tacaggaagc tgctgagcca gctgtacgcc aggaaggtga tccaggacat catgaacaag 180

cagggcgaga ggatccagga gcagagggcc aggctgagct gataagcttg cgatgagttc 240

ttctaa 246

<210> 6
<211> 234
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog porcine GHRH sequence.

<400> 6
gccatggccc tgtgggtgtt cttcgtgctg ctgaccctga ccagcggaag ccactgcagc 60

ctgcctccca gccctccctt cagggtgcgc cggcacgccg acgccatctt caccagcagc 120

tacaggagga tcctgggcca gctgtacgct aggaagctcc tgcacgagat catgaacagg 180

cagcagggcg agaggaacca ggagcagagg agcaggttca actgataagc ttgc 234

<210> 7
<211> 225
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog bovine GHRH sequence.

<400> 7
gccatggtgc tgtgggtgtt cttcctggtg accctgaccc tgagcagcgg ctcccacggc 60

tccctgccct cccagcctct gcgcatccct cgctacgccg acgccatctt caccaacagc 120

taccgcaagg tgctcggcca gctcagcgcc cgcaagctcc tgcaggacat catgaaccgg 180

cagcagggcg agcgcaacca ggagcaggga gcctgataag cttgc 225

<210> 8
<211> 225
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog ovine GHRH sequence.

<400> 8
gccatggtgc tgtgggtgtt cttcctggtg accctgaccc tgagcagcgg aagccacggc 60

agcctgccca gccagccccc gaggatccct aggtacgccg acgccatctt caccaacagc 120

tacaggaaga tcctgggcca gctgagcgct aggaagctcc tgcaggacat catgaacagg 180

cagcagggcg agaggaacca ggagcagggc gcctgataag cttgc 225

<210> 9
<211> 246
<212> DNA
<213> artificial sequence

<220>
<223> Sequence for an analog chicken GHRH sequence.

<400> 9
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ctgcctccca gccctccctt caggatgcag aggcacgtgg acgccatctt caccaccaac 120

tacaggaagc tgctgagcca gctgtacgcc aggaaggtga tccaggacat catgaacaag 180

cagggcgaga ggatccagga gcagagggcc aggctgagct gataagcttg cgatgagttc 240

ttctaa 246

<210> 10
<211> 190
<212> DNA
<213> artificial sequence

<220>
<223> Nucleic acid sequence of human growth hormone poly A tail.

<400> 10
gggtggcatc cctgtgaccc ctccccagtg cctctcctgg ccctggaagt tgccactcca 60

gtgcccacca gccttgtcct aataaaatta agttgcatca ttttgtctga ctaggtgtcc 120

ttctataata ttatggggtg gaggggggtg gtatggagca aggggcaagt tgggaagaca 180

acctgtaggg 190

<210> 11
<211> 55
<212> DNA
<213> artificial sequence

<220>
<223> Nucleic acid sequence of human growth hormone 5' untranslated reg
ion

<400> 11
caaggcccaa ctccccgaac cactcagggt cctgtggaca gctcacctag ctgcc 55

<210> 12
<211> 782
<212> DNA
<213> artificial sequence

<220>
<223> Nucleic acid sequence of a plasmid pUC-18 origin of replicaiton

<400> 12
tcttccgctt cctcgctcac tgactcgctg cgctcggtcg ttcggctgcg gcgagcggta 60

tcagctcact caaaggcggt aatacggtta tccacagaat caggggataa cgcaggaaag 120

aacatgtgag caaaaggcca gcaaaaggcc aggaaccgta aaaaggccgc gttgctggcg 180

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tccaagctgg gctgtgtgca cgaaccccc gttcagcccg accgctgcgc cttatccggt 480

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tt 782

<210> 13
<211> 5
<212> DNA
<213> artificial sequence

<220>
<223> This is a NEO ribosomal binding site

<400> 13
tcctc 5

<210> 14
<211> 29
<212> DNA
<213> artificial sequence

<220>
<223> Nucleic acid sequence of a prokaryotic PNEO promoter.

<400> 14
accttaccag agggcgcccc agctggcaa 29

<210> 15
<211> 323
<212> DNA
<213> artificial sequence

<220>
<223> Nucleic acid sequence of a eukaryotic promoter c5-12.

<400> 15
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gtggggagtt atttttagag cggtgaggaa ggtgggcagg cagcaggtgt tggcgctcta 120

aaaataactc ccgggagtta tttttagagc ggaggaatgg tggacaccca aatatggcga 180

cggttcctca cccgtcgcca tatttgggtg tccgccctcg gccggggccg cattcctggg 240

ggccgggcgg tgctcccgcc cgcctcgata aaaggctccg gggccggcgg cggcccacga 300

gctacccgga ggagcgggag gcg 323

<210> 16
<211> 210
<212> DNA
<213> artificial sequence

<220>
<223> Optimized nucleic acid sequence of a human growth hormone poly A tail

<400> 16
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actccagtgc ccaccagcct tgtcctaata aaattaagtt gcatcatttt gtctgactag 120

gtgtccttct ataatattat ggggtggagg ggggtggtat ggagcaaggg gcaagttggg 180

aagacaacct gtagggctcg agggggggcc 210

<210> 17
<211> 2722
<212> DNA
<213> artificial sequence

<220>
<223> Plasmid vector having a codon optimized mouse GHRH sequence

<400> 17
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gggtgaggaa tggtggggag ttatttttag agcggtgagg aaggtgggca ggcagcaggt 120

gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc 180

caaatatggc gacggttcct cacccgtcgc catatttggg tgtccgccct cggccggggc 240

cgcattcctg ggggccgggc ggtgctcccg cccgcctcga taaaaggctc cggggccggc 300

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cactataggg cgaattggag ct 2722

<210> 18
<211> 2725
<212> DNA
<213> artificial sequence

<220>
<223> Plasmid vector having a codon optimized rat GHRH sequence

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gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc 180

caaatatggc gacggttcct cacccgtcgc catatttggg tgtccgccct cggccggggc 240

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gccggagaac ctgcgtgcaa tccatcttgt tcaatcatgc gaaacgatcc tcatcctgtc 2520

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tttactttgc agggcttccc aaccttacca gagggcgccc cagctggcaa ttccggttcg 2640

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actcactata gggcgaattg gagct 2725

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<211> 2716
<212> DNA
<213> artificial sequence

<220>
<223> Plasmid vector having a codon optimized bovine GHRH sequence

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gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc 180

caaatatggc gacggttcct cacccgtcgc catatttggg tgtccgccct cggccggggc 240

cgcattcctg ggggccgggc ggtgctcccg cccgcctcga taaaaggctc cggggccggc 300

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cgcatccctc gctacgccga cgccatcttc accaacagct accgcaaggt gctcggccag 540

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aacagtattt ggtatctgcg ctctgctgaa gccagttacc ttcggaaaaa gagttggtag 1560

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cctgcgtgca atccatcttg ttcaatcatg cgaaacgatc ctcatcctgt ctcttgatca 2520

gatcttgatc ccctgcgcca tcagatcctt ggcggcaaga aagccatcca gtttactttg 2580

cagggcttcc caaccttacc agagggcgcc ccagctggca attccggttc gcttgctgtc 2640

cataaaaccg cccagtctag caactgttgg gaagggcgat cgtgtaatac gactcactat 2700

agggcgaatt ggagct 2716

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<211> 2716
<212> DNA
<213> artificial sequence

<220>
<223> Plasmid vector having a codon optimized ovine GHRH sequence

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gttggcgctc taaaaataac tcccgggagt tatttttaga gcggaggaat ggtggacacc 180

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cataaaaccg cccagtctag caactgttgg gaagggcgat cgtgtaatac gactcactat 2700

agggcgaatt ggagct 2716

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<211> 2725
<212> DNA
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<223> Plasmid vector having a codon optimized chicken GHRH sequence

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